Title (en)

INTERNAL COMBUSTION ENGINE EXHAUST PURIFYING APPARATUS

Title (de)

ABGASREINIGUNGSVORRICHTUNG FÜR EINEN VERBRENNUNGSMOTOR

Title (fr)

DISPOSITIF DE PURIFICATION DE GAZ D'ÉCHAPPEMENT POUR MOTEUR À COMBUSTION INTERNE

Publication

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Application

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Priority

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Abstract (en)

The invention relates to an exhaust gas purification device of an internal combustion engine comprising a catalyst (45) having an active element and a composite oxidation which carries the active element in an exhaust passage (40), the active element transforming into the composite oxide as a solid solution when the catalyst temperature is higher than or equal to a predetermined solid solution temperature and the atmosphere of the interior of the catalyst is an oxidation atmosphere and the active element precipitating from the composite oxide when the catalyst temperature is higher than or equal to a predetermined precipitation temperature and the atmosphere of the interior of the catalyst is a reduction atmosphere. According to the invention, in case that the performance of the fuel supply stop control is inhibited when the catalyst temperature is higher than or equal to the performance inhibiting temperature, a temperature lower than a base temperature of the performance inhibiting temperature is set as the performance inhibiting temperature while the use degree of the catalyst is lower than or equal to a predetermined degree and in case that the performance of the fuel supply amount increase control is permitted when the catalyst temperature is higher than or equal to a performance permitting temperature, a temperature higher than a base temperature of the performance permitting temperature is set as the performance permitting temperature while the use degree of the catalyst is smaller than or equal to the predetermined degree.

IPC 8 full level

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